

# HURRICANE DORIAN BRIEFING

8:00 AM EDT

Wednesday, September 4, 2019

Prepared by:

WFO Jacksonville FL

For Emergency Management Use Only!

#### Hurricane Dorian



## Jacksonville FL WEATHER FORECAST OFFICE



- Highest area of concern of overall concern remains from Ponte Vedra Beach southward <u>but</u> the entire coast continues to be threatened.
- Life threatening waves/Breakers of 12 to 16 feet on the outer sandbar and 7 to 10 feet beaches
- Tropical storm (39 to 57 mph) to strong tropical storm (58 to 73 mph) conditions along the beaches, backed by a category 2 hurricane offshore, along with wave run up, is likely to produce significant surge possibly 3 to 5 feet AGL oceanfront 2 to 4 feet AGL Intracoastal.
- Localized bay/sound side areas on Amelia Island, St Andrews Sound and Saint Simons Sound to 6 feet with sound side flooding.
- Track and wind envelope size remain the determining factors. We will be watch events in central Florida closely for trends with respect to winds, surge and wave action.

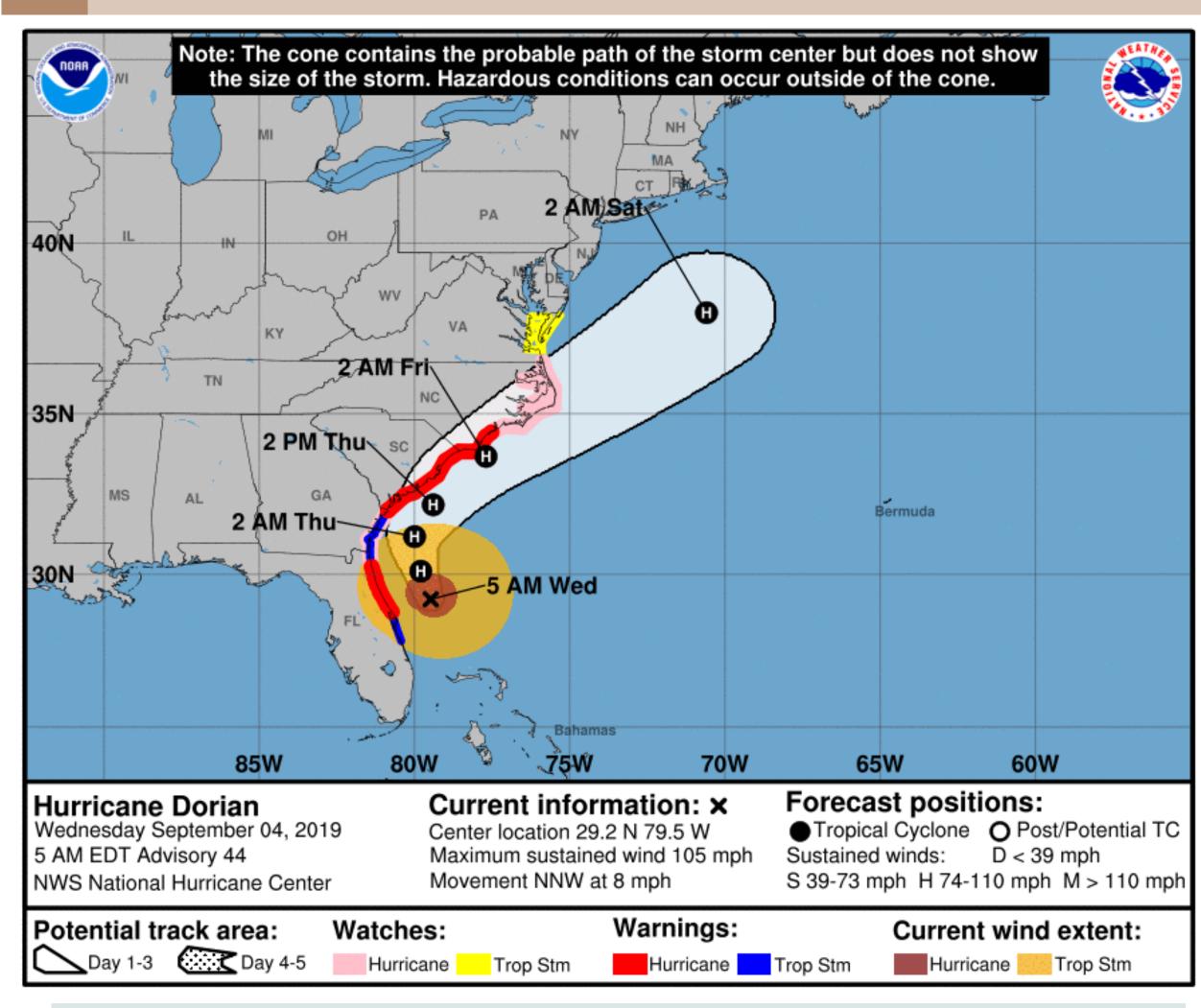
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#### Situation Overview

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Hurricane Dorian



**NOTE:** Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

#### **New Information**

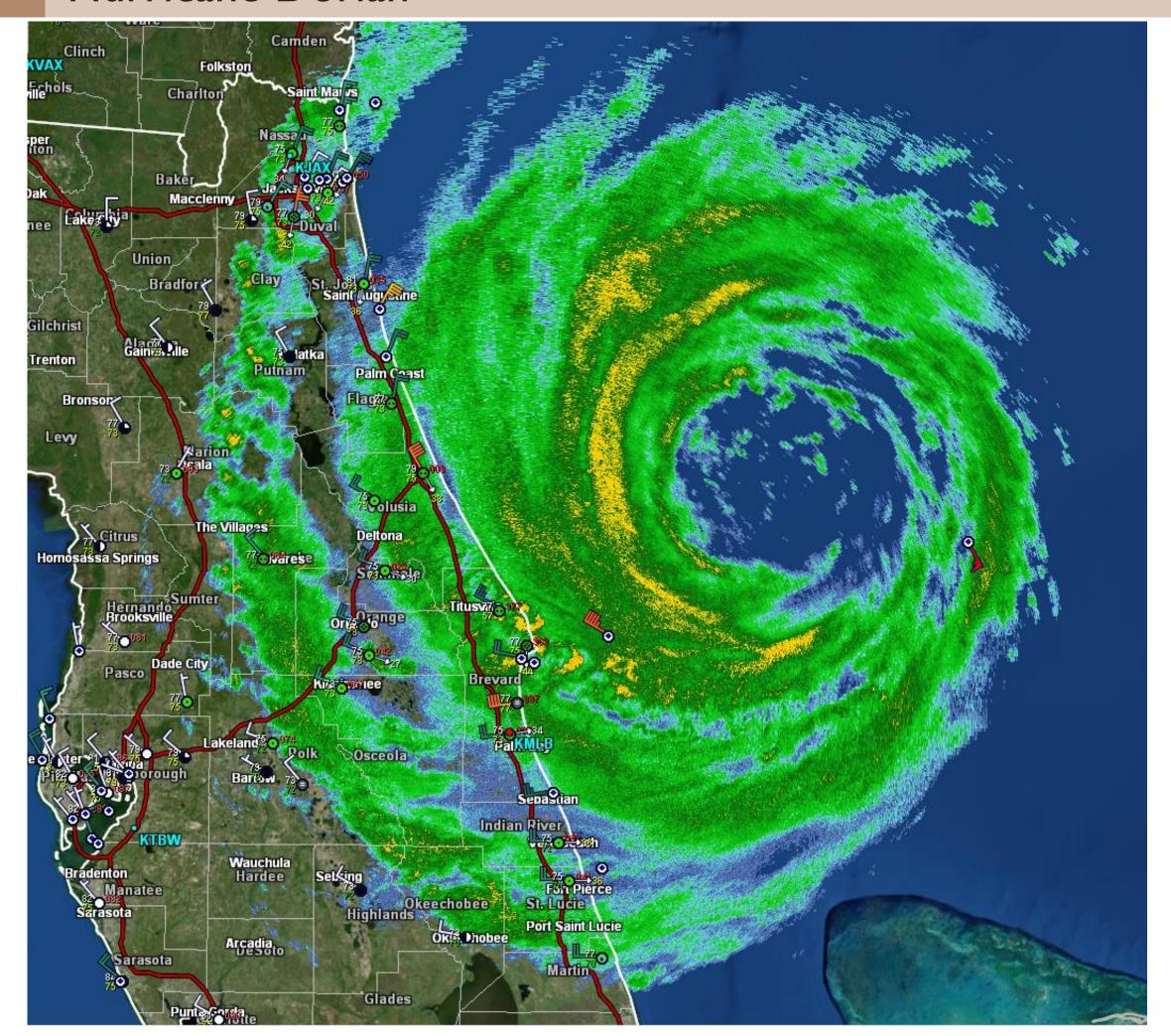
- Dorian NUDGED a bit west
- Tropical storm warnings for Wayne, Brantley and eastern Charlton.

#### Concerns

- Damaging/life threatening surf
- Coastal surge, Generally 3 to 5 feet ocean and 2 to 4 feet Intracoastal, Locally higher on bays and sounds near inlets.
- Tropical storm to strong tropical storm force winds, Possible hurricane gusts for Glynn County and Cumberland Island.
- Potential St Johns River flooding for north and northwest facing creeks & choke points

#### Radar Depiction

#### Hurricane Dorian



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- Dorian's western eye wall better established.
- Tropical storm force winds are being felt along the beaches near Daytona Beach.
- Dry air mixing into the system is expected to bring the strongest winds and gusts AFTER the center has passed to your north. In the southwestern quadrant of the storm.
- Don't let your guard down after the center has moved north of you.

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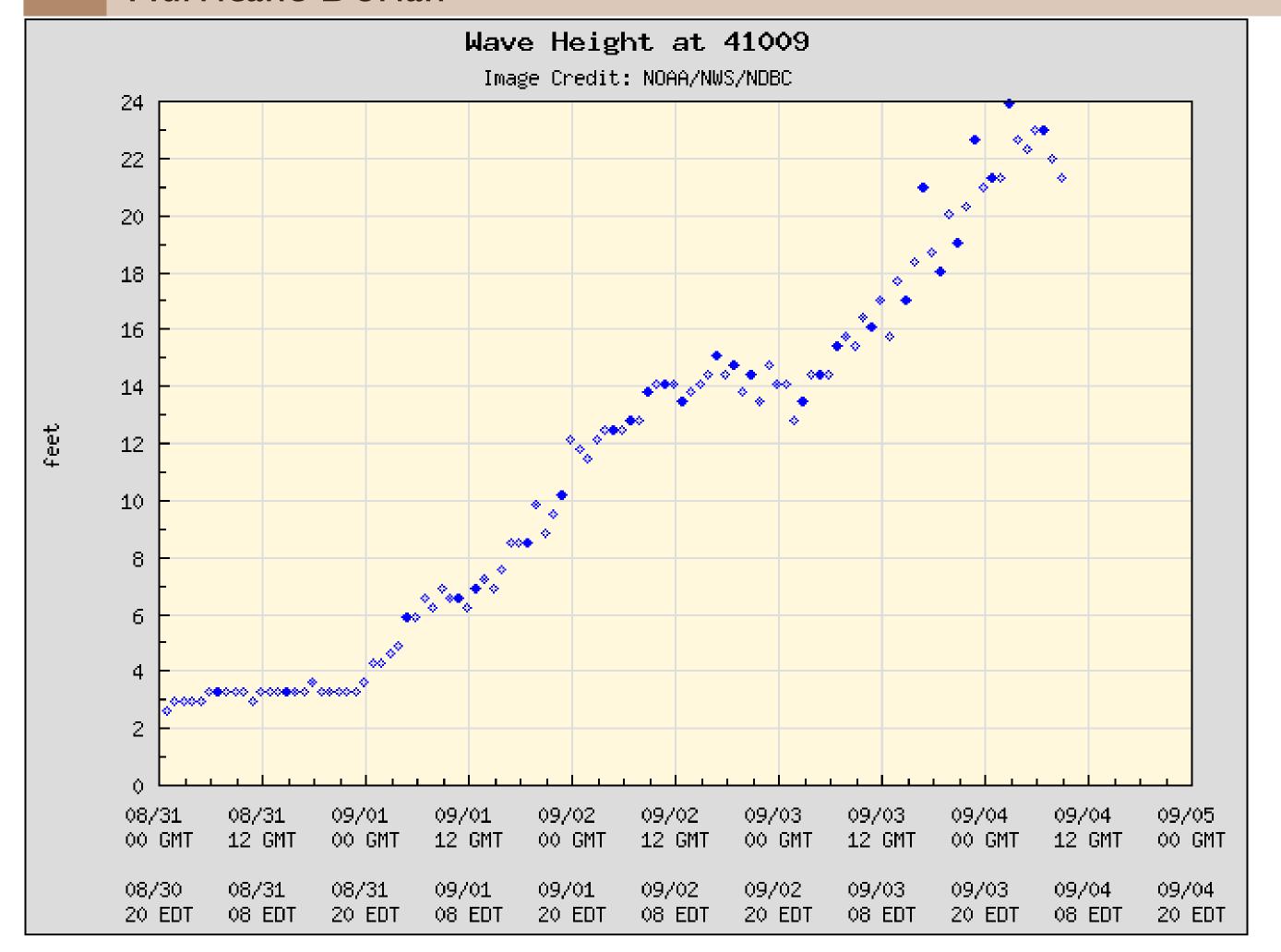
#### Surf / Breakers

## WEATHER STREET

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#### Hurricane Dorian



**NOTE:** Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

- The deep water waves off Cape Canaveral only peaked at 24 feet.
- Based on that 12 to 16 feet breakers on the outer sand bar.
- 7 to 10 on the actual beaches
- Remember that is 7 to 10 foot waves riding on top of a 3 to 5 foot surge
- Still will reach vulnerable infrastructure

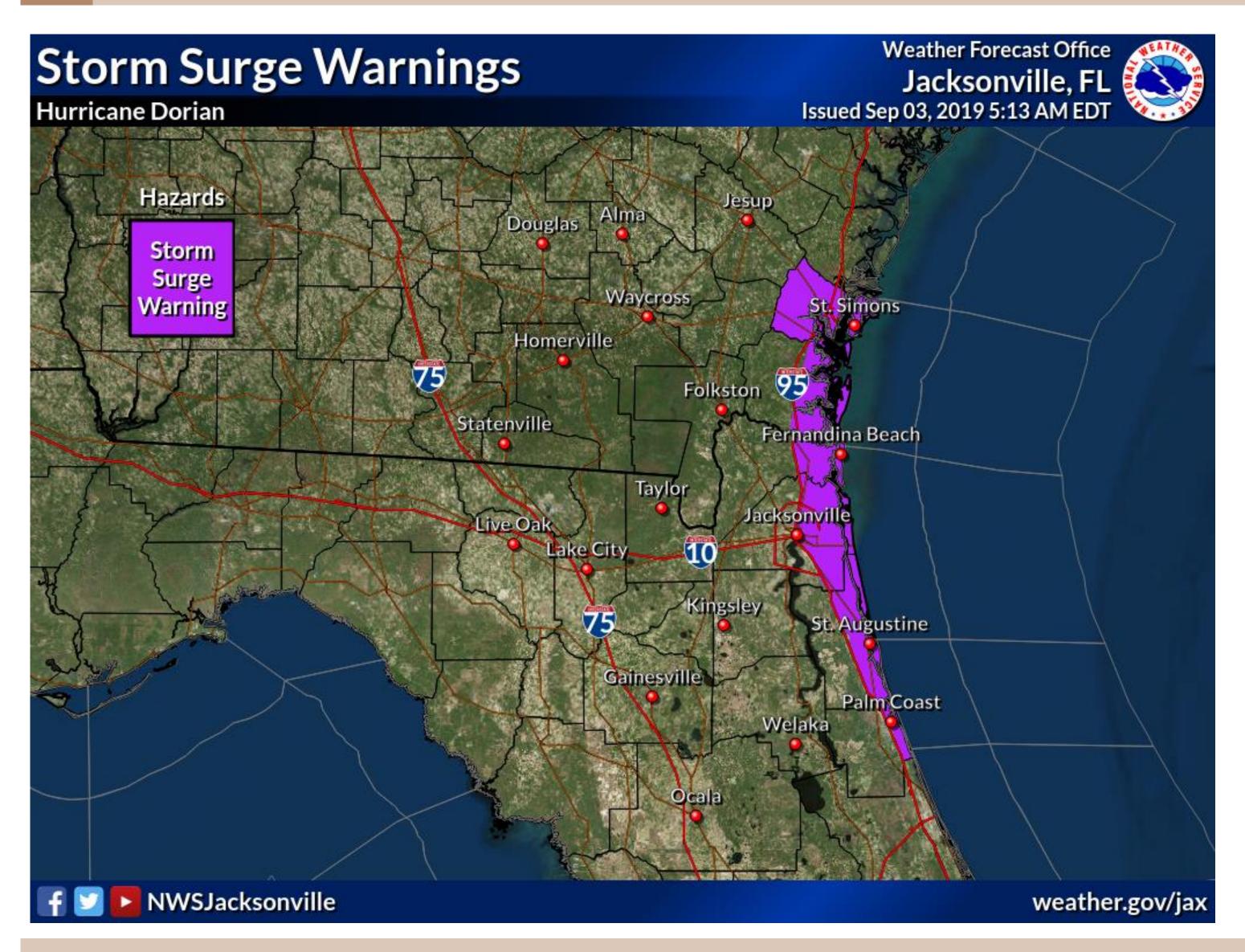
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### Storm Surge Warning

Hurricane Dorian



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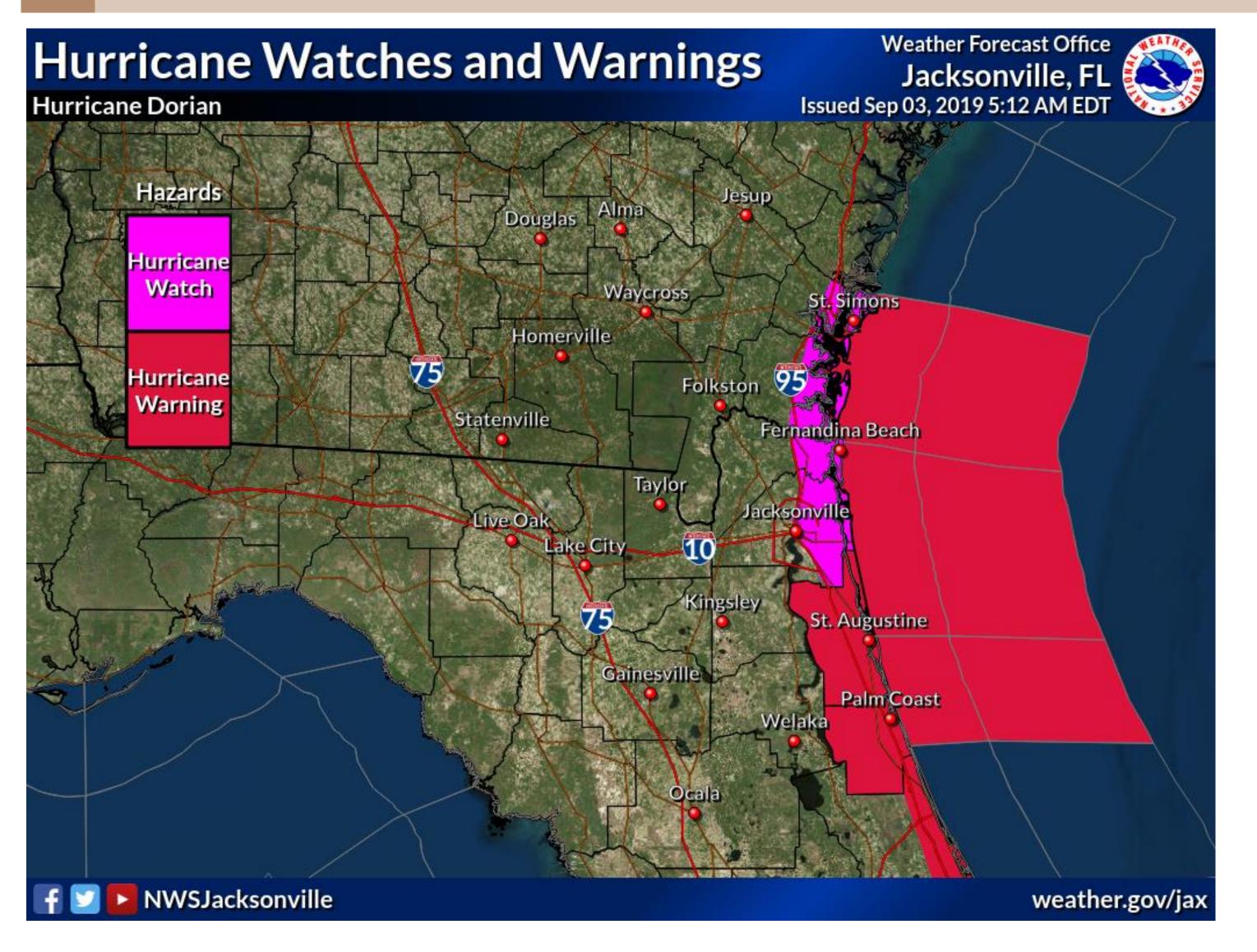
- Storm Surge Warning in effect for the Beaches and Intracoastal Water Way (ICWW) from the Altamaha River south to Flagler Beach
- Possibility/danger of life-threatening inundation from storm surge somewhere in the specified area within 36 hours.

#### Hurricane Watches and Warnings

Hurricane Dorian



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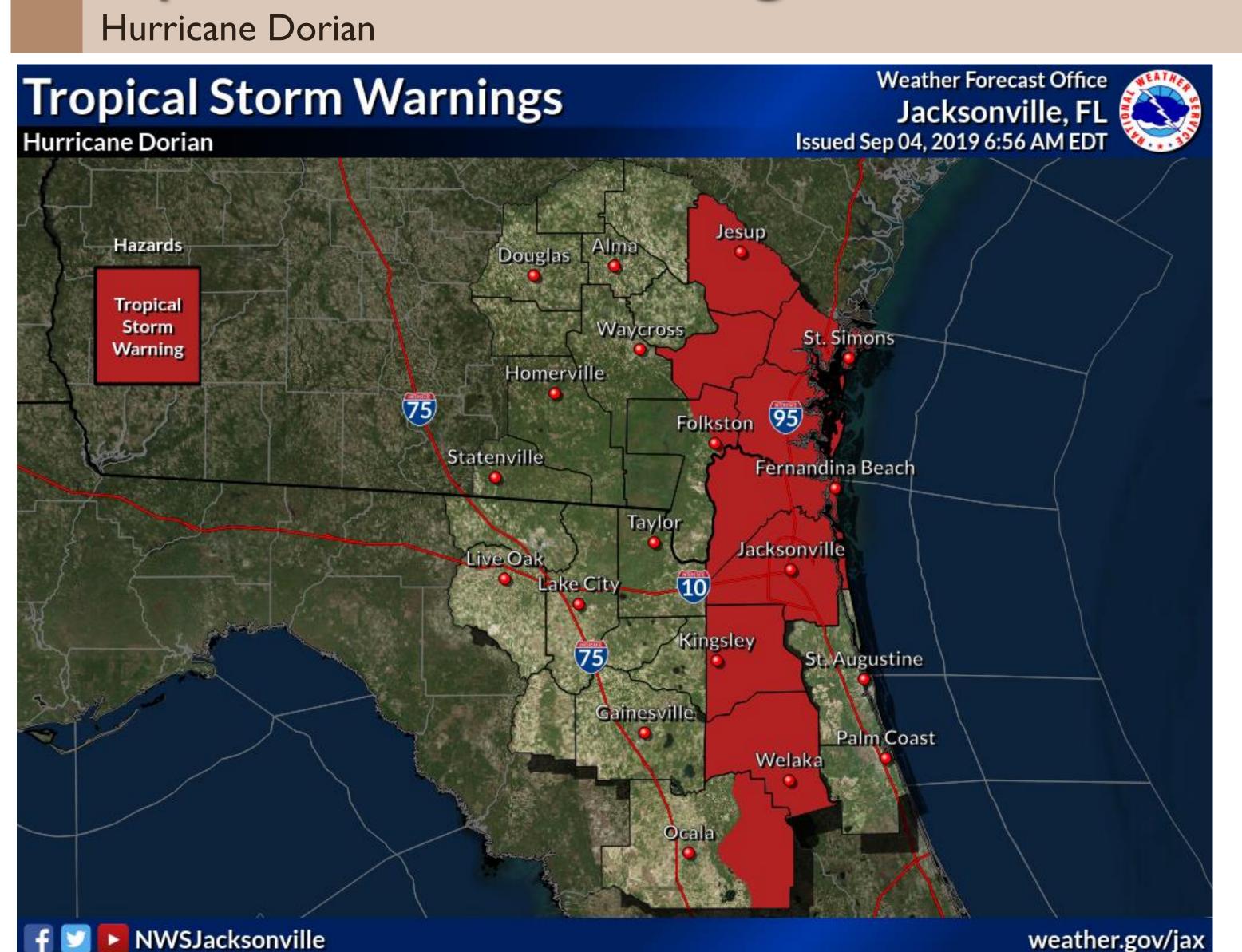
#### Hurricane Warning in effect for...

- St Johns and Flagler Counties
- Coastal waters.

#### Hurricane Watch in Effect for...

- Coastal areas from South Jacksonville Beach to Sea Island.
- Ports of Brunswick, Fernandina, and Jacksonville

#### Tropical Storm Warning





#### **Tropical Storm Warning in effect** for...

- Coastal counties from Duval County to Glynn County
- Ports of Brunswick, Fernandina and Jacksonville
- **Eastern Marion County east of** the Ocklawaha River will be dropped at 8:00 a.m.
- Clay, and Putnam counties, mainly for areas immediately near the St Johns River.

9/4/2019 8:32 AM www.weather.gov/jax

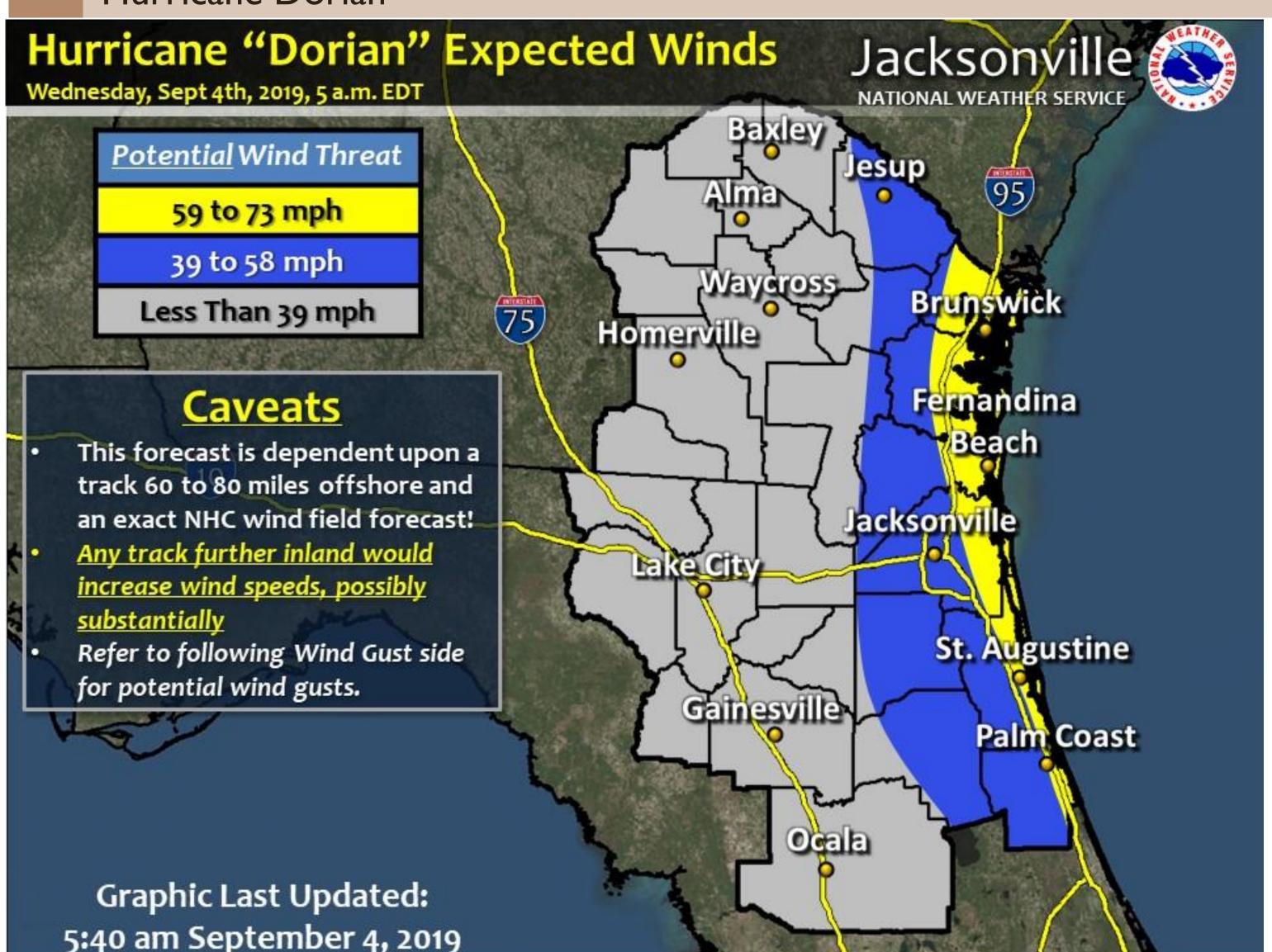
weather.gov/jax

#### Most Likely Sustained Winds

Hurricane Dorian



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- Tropical Storm Force winds along the and larger exposed areas of the St Johns River and Crescent Lake.
- BUT we will not realize these wind speeds in all areas
- Will not see <u>continuous</u> winds to these speeds...
- ...rather the peak winds will come with bands rotating around the system as it moves by us.

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#### Most Likely Wind Gusts

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Hurricane "Dorian" POTENTIAL Gusts Jacksonville ? Wednesday, Sept 4th 2019, 5 a.m. EDT NATIONAL WEATHER SERVICE **Potential Wind GUSTS** Jesup Hurricane Force 58 to 73 mph Brunswick 39 to 58 mph Homerville Less Than 39 mph Fernandina Beach Caveats This forecast is dependent upon a Jacksony track 60 to 80 miles offshore and Lake City an exact NHC wind field forecast! Any track further inland would increase wind gusts, possibly St. Augustine substantially Gainesville Hurricane force gusts are most Palm Coast likely for Cumberland Island and Glynn County, GA. Ocala Graphic Last Updated: 5:45 am September 4, 2019

- Hurricane force wind gusts (red) are <u>POSSIBLE</u> for the Immediate coast and Intracoastal Waterway. Best chance Cumberland Island and Glynn County.
- Strong tropical storm force wind gusts are in yellow. Particularly in JAXPort, Port of Fernandina and Cumberland/St Andrews Sounds.
- Wind gusts less than 58 mph elsewhere (blue).

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### Flooding Rain Threat

Hurricane Dorian

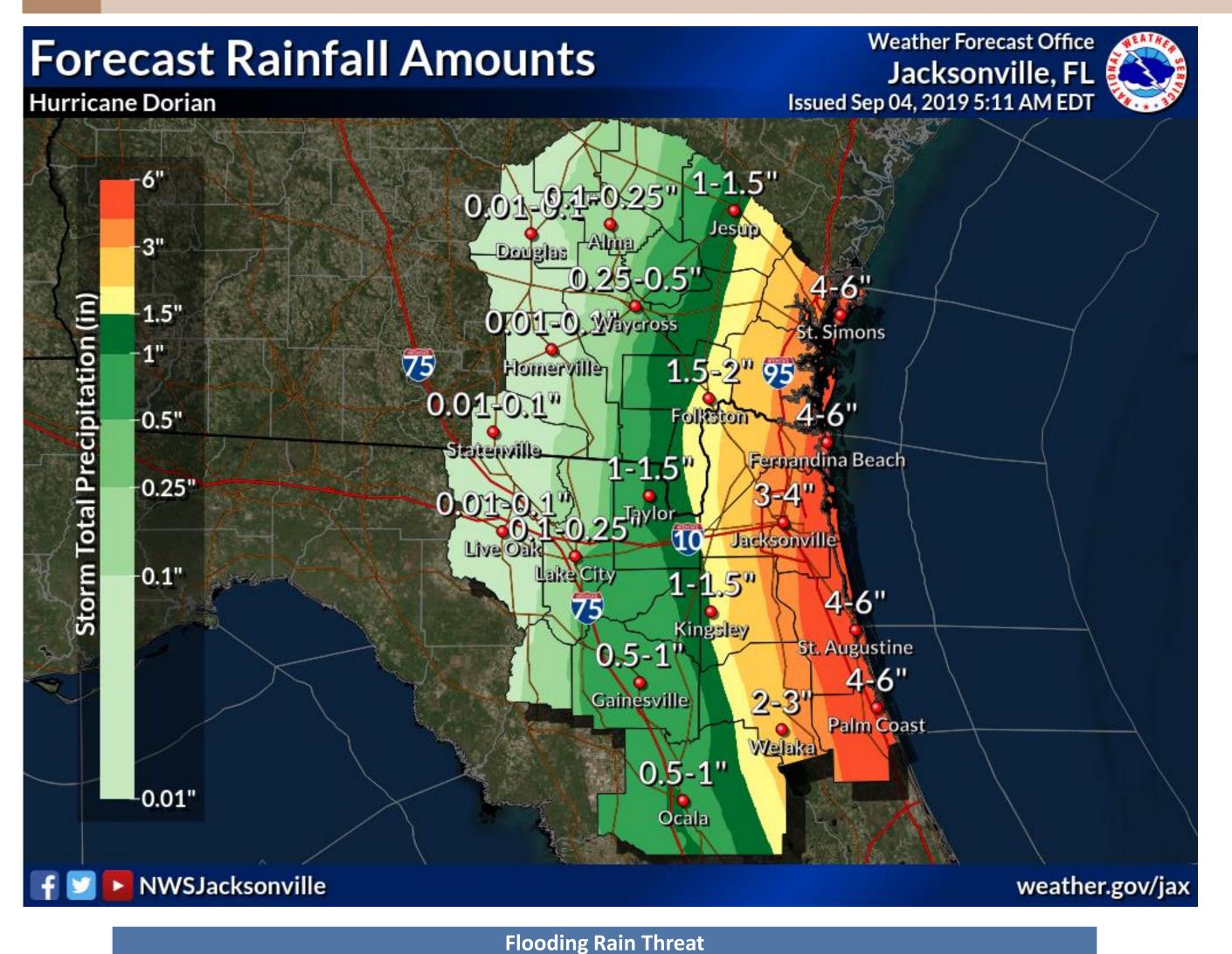
Potential for extreme Potential for major

flooding rain

flooding rain



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flooding rain

flooding rain

- 4 to 6 inches for the coastal areas.
- 3 to 4 inches other coastal areas and St Johns River areas.
- I to 3 inches near Black Creek.

Locally Higher Amounts are POSSIBLE.

**Potential for moderate** Potential for localized Little to no potential for flooding rain

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www.weather.gov/jax 9/4/2019 8:32 AM

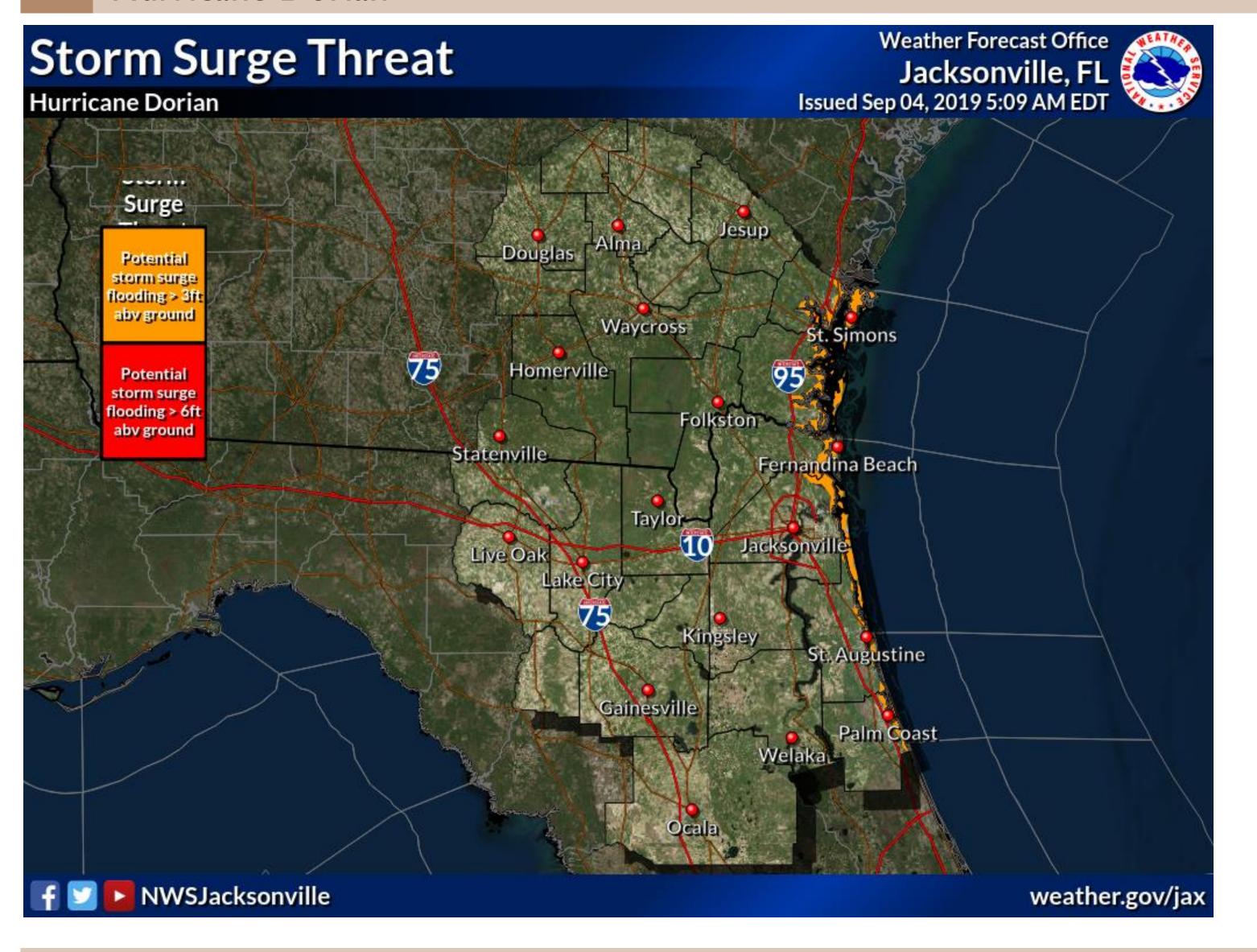
#### Storm Surge Threat

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- High along the ocean front locations and larger rivers immediately near the coast with 3 to 5 foot Above Ground Level (AGL) Surge POSSIBLE.
- 2 to 4 Feet AGL on portions of the Intracoastal Waterway POSSIBLE.
- **Localized** sound side flooding of 5 to 7 feet is possible...
  - Egans Creek
  - Tiger Point Marina
  - Fernandina Harbor Marina
  - F. J. Torras Causeway
  - Jekyll Island ICWW Side
  - SSI: The Village/Neptune Park

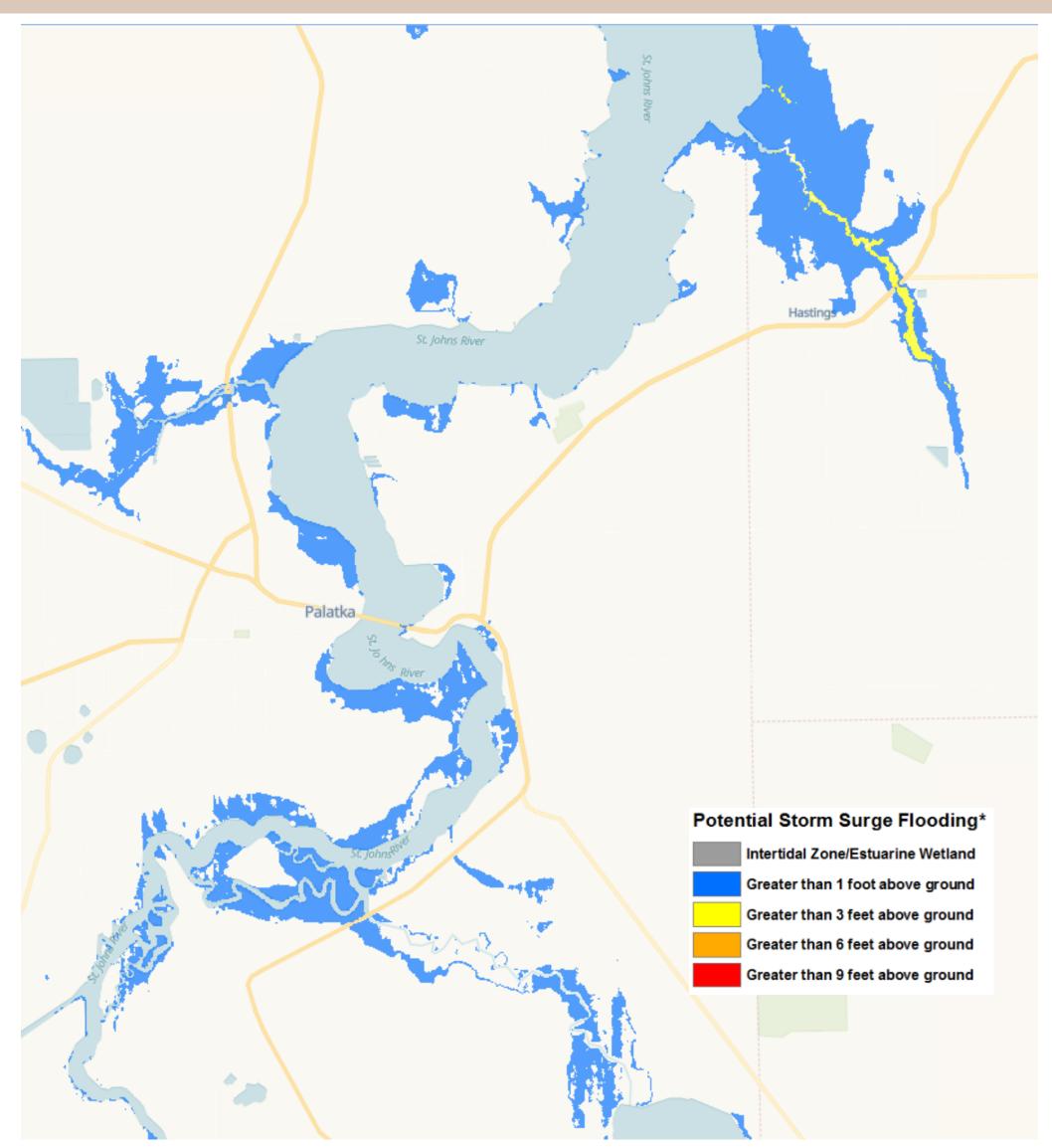
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#### Potential St Johns River Flooding

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- Deep Creek, Hastings and Federal point possibly 3 to 3.5 feet Above Ground Level (AGL) with any track further west. More likely 2 to 3 feet AGL with current track.
- Dunns Creek, San Mateo, 2 to 3 feet AGL.

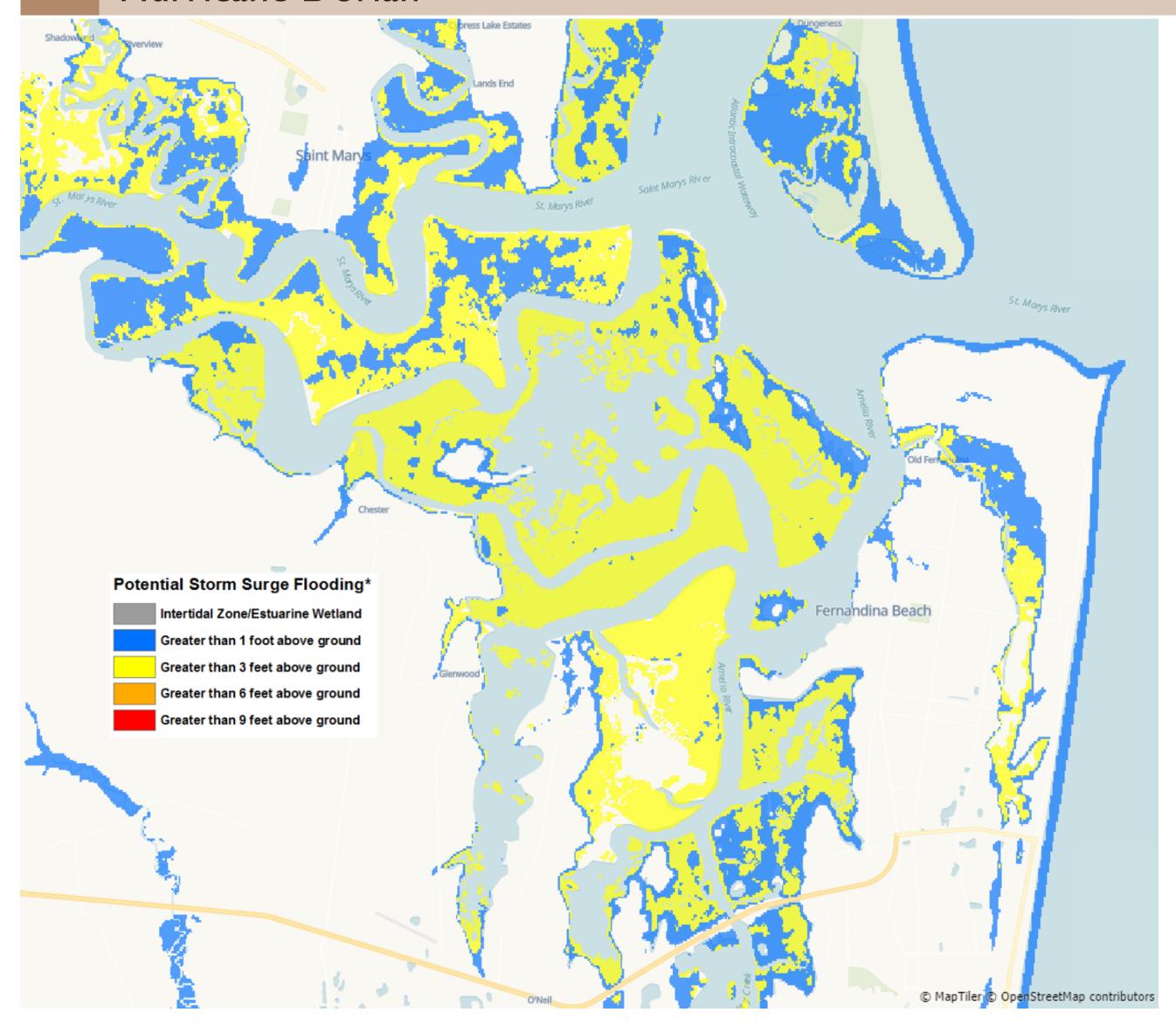
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#### Amelia Island

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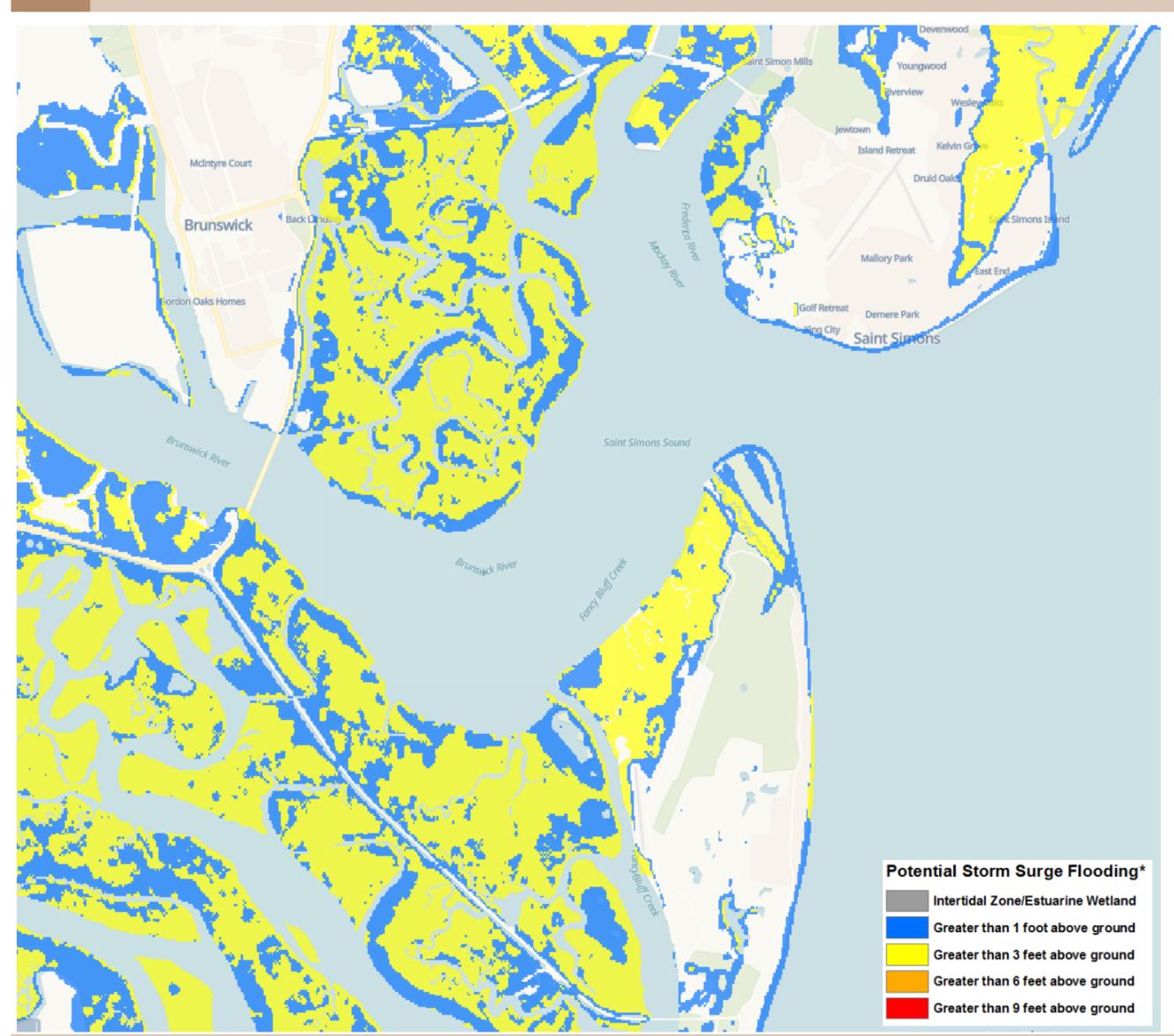
- LOCALLY to 6 feet AGL.
- Fernandina Harbor Marina
- Tiger Point Marina
- Port of Fernandina
- Egans Creek (best chance of reaching 6 feet AGL).

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#### Hurricane Dorian



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- LOCALLY 4 to 6 feet AGL.
- Village and east beach on marsh
- Jekyll Island on ICWW Side
- Coffin Park/Lanier Blvd area
- Marshside
- F. J. Torras and the Jekyll Island causeways along with South Beach Parkway are likely to be impassable between 11 a.m. and 3 p.m. due to spray and inundation.

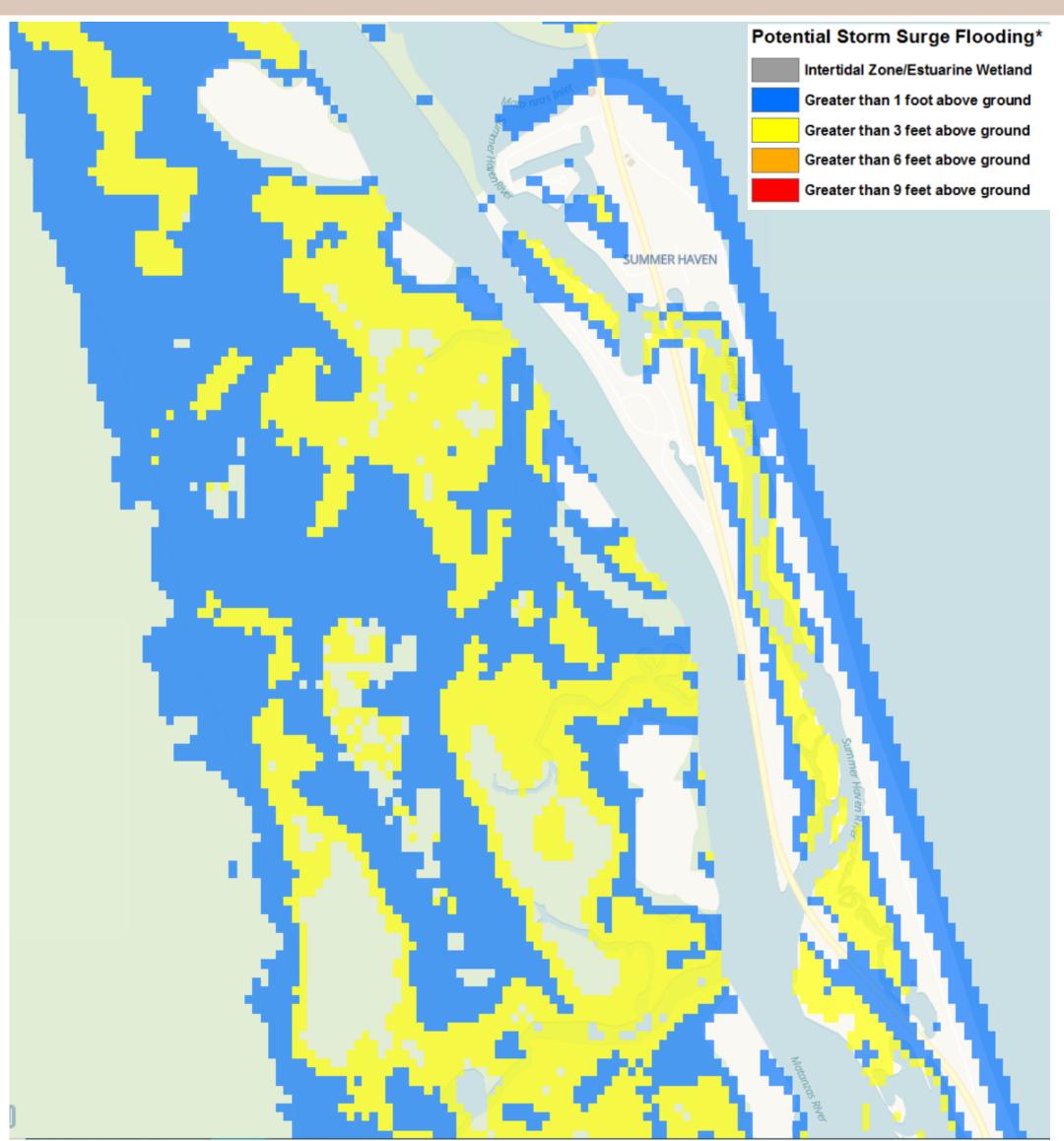
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#### Matanzas and Summerhaven

#### Hurricane Dorian



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- Generally 3 feet AGL Oceanfront, but some locally higher spots possible.
- 3 to 4 feet AGL on Intracoastal side of Summerhaven.
- If higher values occur they will be near Matanzas Inlet and also along Old AIA in the low spots.

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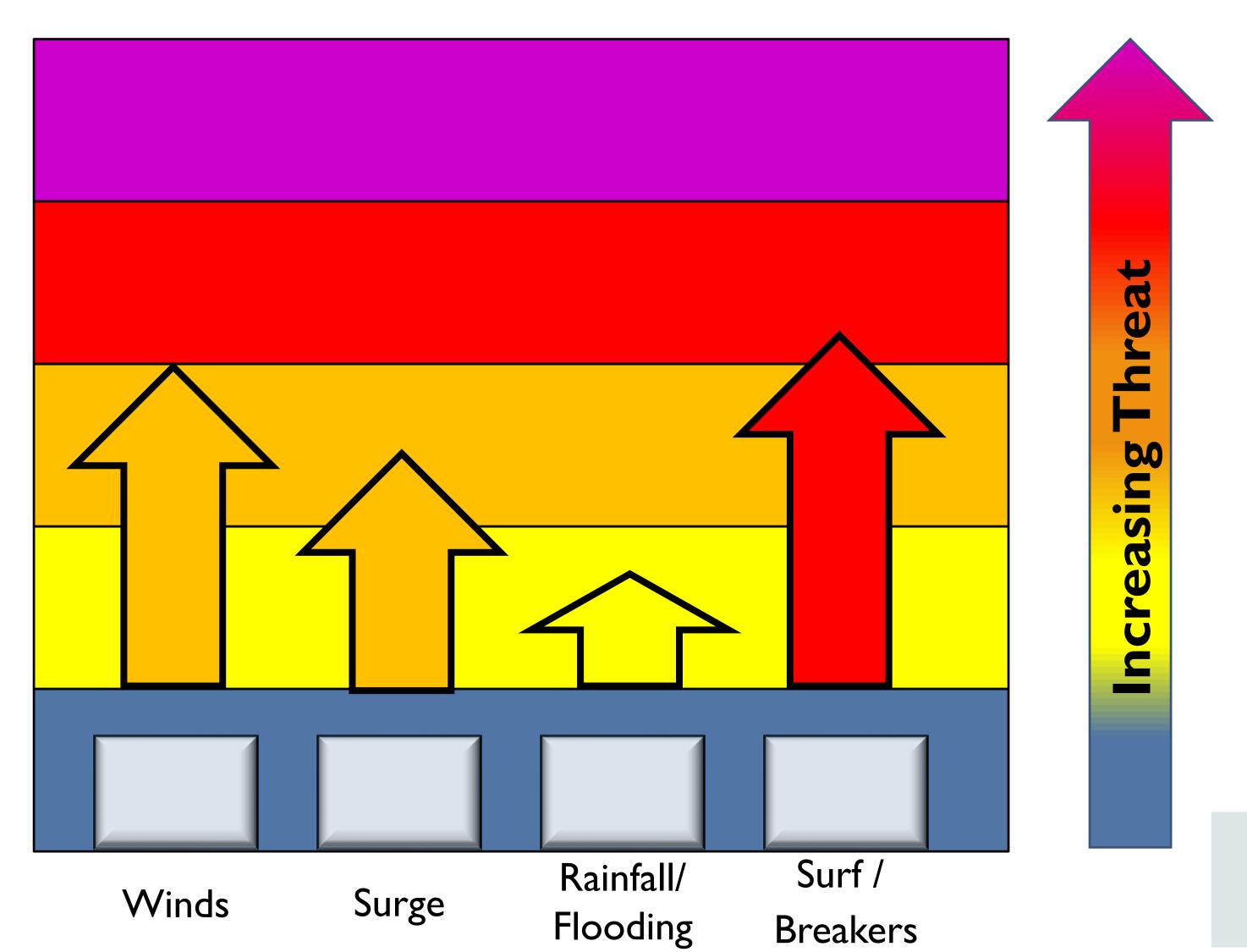
#### Threat Level Summary

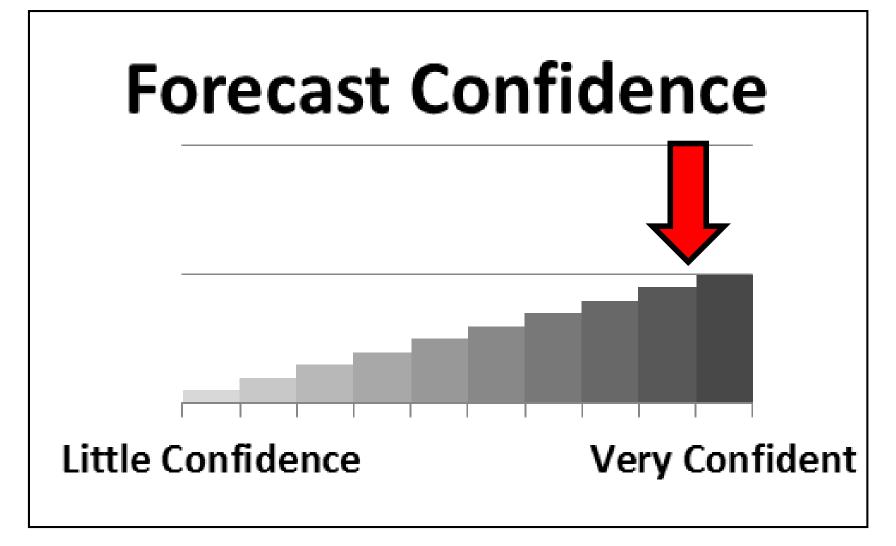
Hurricane Dorian



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The exact impacts are highly dependent upon track, intensity and wind envelope size. NHC has done a great job with the forecast by now every mile makes a huge difference for impacts.

For information on specific hazards in this area, please go to https://www.weather.gov/srh/tropical?office=jax

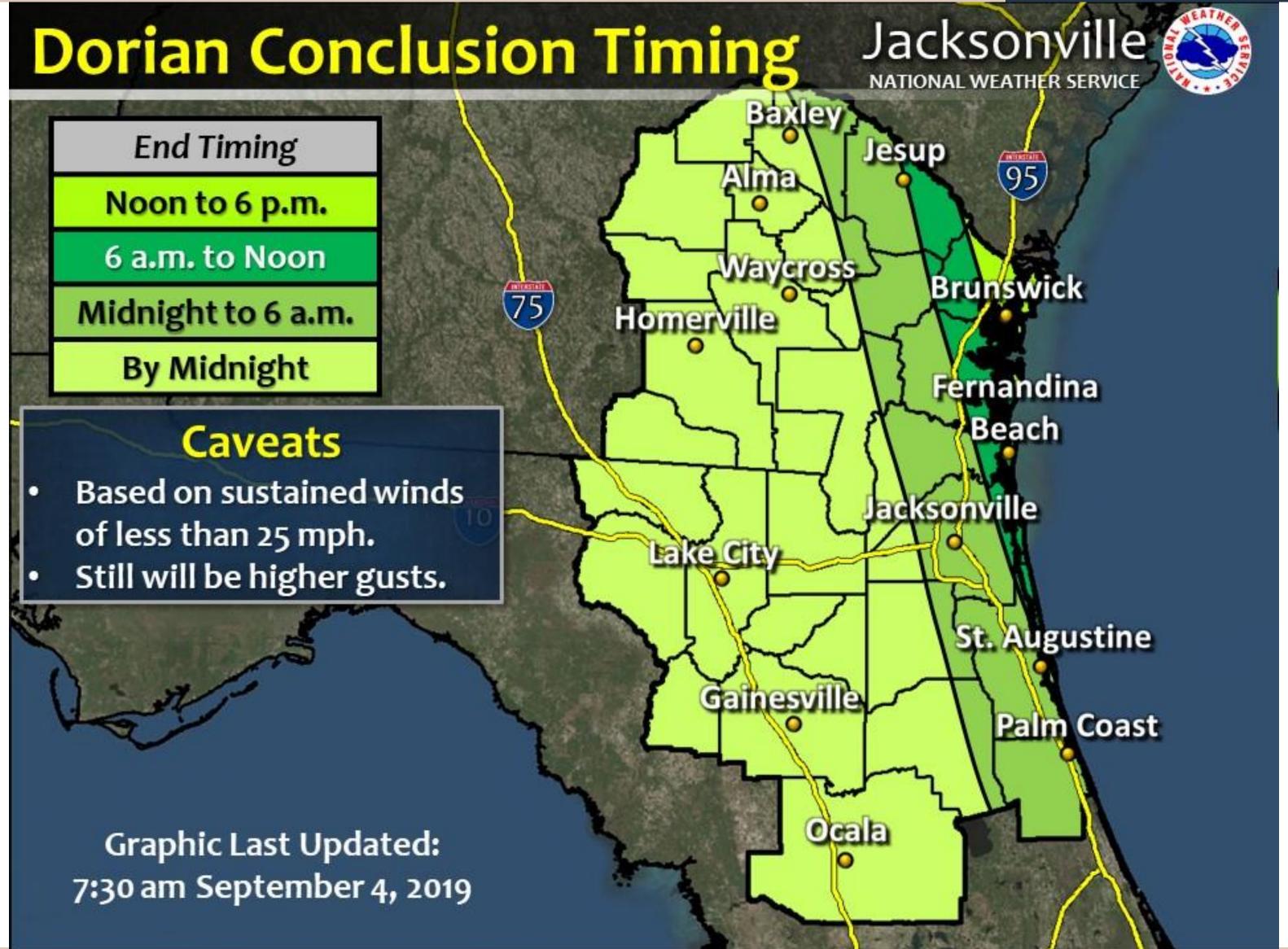
#### Conclusion Timing

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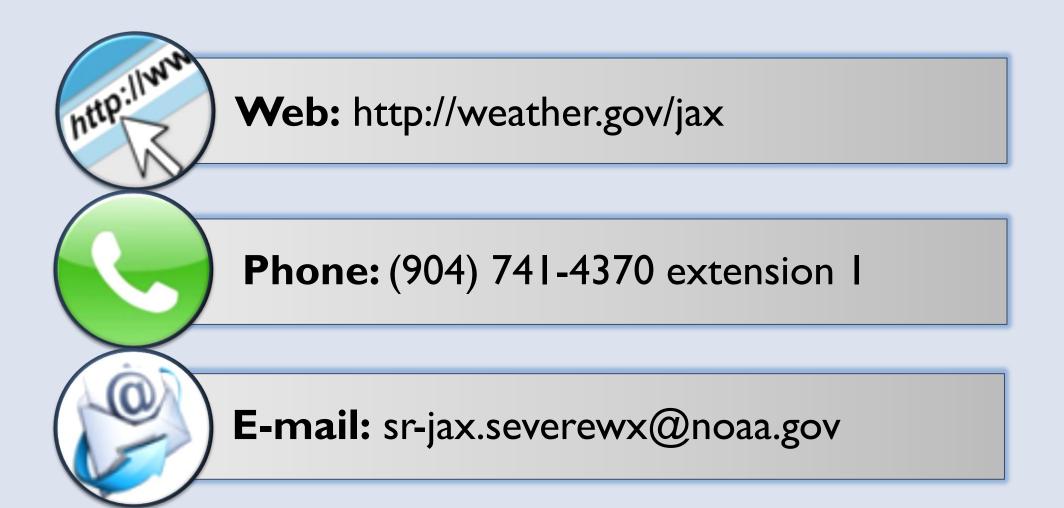
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- It's still a game of miles. Exact track and size matter.
- Hurricane force gusts possible for Glynn County.
- Strongest winds will be behind the eye.
- LOCALIZED major sound/bay side flooding is possible. Those affected have been personally briefed.
- Large/damaging/life threatening breakers.

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## The Next Briefing Will Be: Wednesday Florida/USN/USMC/USCG 1:20 PM EDT Georgia 2:30 pm EDT





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You can always find get the latest graphics and information for this storm at www.hurricanes.gov

**NWSJacksonville**